



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Barrett, Joseph

Serial No.: 09/921,070

Filed: August 02, 2001

Priority Date: December 05, 1997

For: PLASTIC BALL GRID ARRAY
ASSEMBLY

Examiner: Chu, Chris C.

Art Unit: 2815

#121 Declaration
Approved
3/14/03

DECLARATION UNDER 37 C.F.R. § 1.131

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

I, Joseph Barrett, do hereby declare that:

1. I am the inventor of claims 16-42 of the divisional patent application identified above and the inventor of the subject matter described and claimed therein.
2. Prior to April 22, 1997, which is the effective date of the Tokuno reference (U.S. Patent 5,892,289), I had conceived the idea of a plastic ball grid array package with reinforced corners, which is the invention described and claimed in the divisional application, and was diligent in reducing to practice the invention, as evidenced by the following:

a. Prior to April 22, 1997, having earlier conceived the idea of a plastic ball grid array package with reinforced corners, I wrote down notes about the idea on pages 4 and 8 of my notebook, which are attached hereto as Exhibit A. On page 4 of my notebook, I took notes at a Voice of the Customer Joint Engineering Team (VOC JET) meeting that likely took place on March 27, 1997. These notes explicitly talk about the idea of an improved package design having better corner support by extending the mold compound into the package corners. Page 8 of my notebook, dated April 1, 1997, talks about our concern with the prior packaging design, namely that the substrate would crack with increased force. Page 1 of my notebook, dated March 25, 1997, is included as evidence that the notes on page 4 of the notebook were written between March 25, 1997 and April 1, 1997.

3. Each of the notebook pages of Exhibit A include notes relating to the idea of a plastic ball grid array package with reinforced corners and were written prior to April 22, 1997.

4. Prior to September 26, 1997, which is the effective date of the Low et al. reference (U.S. Patent 5,886,398), I had conceived the idea of a plastic ball grid array package with reinforced corners, which is the invention described and claimed in the divisional application, and was diligent in reducing to practice the invention, as evidenced by the following:

a. Prior to September 26, 1997, having earlier conceived the idea of a plastic ball grid array package with reinforced corners, I filed an internal Intel Invention Disclosure form on May 29, 1997 attached hereto as Exhibit B. The Intel Invention Disclosure form discloses the subject matter described and claimed in the divisional application.

b. Prior to September 26, 1997, I received a letter from Intel on July 1, 1997 notifying me of the award for submitting the Intel Invention Disclosure form of the idea, which is attached hereto as Exhibit C.

c. Prior to September 26, 1997, I received a letter from Intel on August 29, 1997 notifying me of the intention by Intel to file a patent application relating to the idea, which is attached hereto as Exhibit D.

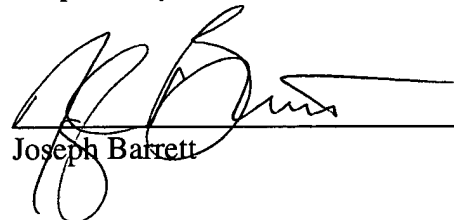
5. Each of the dates from Exhibits B, C, and D are prior to September 26, 1997.

I, as the Applicant of this divisional application, respectfully submit that I had conceived the claimed invention at least as early as April 22, 1997, and was diligent in the reduction to practice of the invention. Applicant respectfully submits that this divisional application is entitled to the benefit of the filing date of the parent application, which is December 5, 1997.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-identified application or an patent issued therefrom.

Respectfully submitted,

Date: FEBRUARY 24, 2003



Joseph Barrett